

March 03 Monday AM (Mike Ritzwoller, Doug Wiens)

Introduction and Welcome

8:30	-	8:50	Mike Ritzwoller	University of Colorado at Boulder	Welcome to SEAP 2003
8:50	-	9:05	Terry Wilson	Ohio State University	New Frontiers in Antarctic Geoscience

The Big Picture

9:05	-	9:35	Ian Dalziel	University of Texas at Austin	Tectonic Framework of Antarctica
9:35	-	9:55	Andrew Nyblade	Penn State University	Constraining Upper Mantle Thermal Anomalies Using Seismic Methods
9:55	-	10:15	Tim Stern	Institute of Geophysics, Victoria University of Wellington	Mountain Uplift and Related Processes in Antarctica

10:15	-	10:35	Sridhar Anandakrishnan	Penn State University	Challenges for Collecting High Quality Geophysical Data in Antarctica
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10:35 - 10:55 Break and Poster Viewing

Earth Structure: Crust to Core

10:55	-	11:15	Nikolai Shapiro	University of Colorado at Boulder	The Antarctic Upper Mantle: Recent Advances and Future Challenges Using Surface Waves
11:15	-	11:30	J.P. Montagner	Institut de Physique du Globe	Anisotropic Seismology in Antarctica
11:30	-	11:45	Mike Wyssession	Washington University	Investigating the Deep Earth with Antarctic Seismometers
11:45	-	12:00	Xiaodong Song	University of Illinois at Urbana-Champaign	The Antarctic Array: Implications for Studies of Earth's Core and Deep Mantle
12:00	-	1:30	Lunch and Poster Viewing		

Monday PM (Don Blankenship, Sridhar Anandakrishnan)

Contact with Icesheet Dynamics/Climate Rebound

1:30	-	2:00	Slawek Tulaczyk	University of California, Santa Cruz	What Lies Beneath an Ocean of Ice? How Lithospheric and Crustal Structure of Antarctica Influence Ice-Sheet Behavior
2:00	-	2:30	Rob Deconto	University of Massachusetts	Coupled Climate – Ice Sheet Modeling of the Ancient Antarctic Environment
2:30	-	2:45	Andy Smith	British Antarctic Survey	Active Sources and Glaciology
2:45	-	3:00	Shijie Zhong	University of Colorado at Boulder	Mantle Seismic and Viscosity Structures and Post-Glacial Rebound
3:00	-	3:15	John Wahr	University of Colorado at Boulder	Isostatic Rebound Caused by Antarctic Deglaciation

3:15 - 3:30 Break and Poster Viewing

First Working Group Meeting

3:30	-	5:00	Continental Network/Leap-Frogging Array(s) (Brian Kennett, Arthur Lerner-Lam) Interdisciplinary Process-Oriented Experiments (Andrew Nyblade, Ian Dalziel) Technical Challenges (James Fowler, Bjorn Johns) Icesheet Dynamics/Climate (Slawek Tulaczyk, Shijie Zhong)		
6:30	-	...	Banquet Dinner		

March 04 Tuesday AM (Rick Aster, Mike Ritzwoller)

Volcanos and Earthquakes

8:30	-	8:45	Shamita Das	University of Oxford	Intraplate Stresses Inferred from the Mw 8.1 1998 Antarctic Plate Earthquake
8:45	-	9:00	Steve Bannister	Institute of Geological and Nuclear Sciences, New Zealand	Icequakes or Earthquakes?
9:00	-	9:15	Carol Finn	U.S. Geological Survey	Linking Crust and Mantle: The Origin of Cenozoic Alkali Magmatism in the Southwest Pacific

Marine Geophysics/Margins

9:15	-	9:30	Rob Larter	British Antarctic Survey	Tectonic Evolution of the Pacific Margin of Antarctica Since 100 Ma
9:30	-	9:45	Lawrence Lawver	Institute for Geophysics, UT Austin	Edge Effects: Tectonic Evolution of the Antarctic Margins
9:45	-	10:00	Joann Stock	California Institute of Technology	Tertiary Seafloor Spreading Between East and West Antarctica and Implications for Antarctic Lithospheric Structure
10:00	-	10:15	Roy Livermore	British Antarctic Survey	Drake Passage and the Scotia Sea

10:15 - 10:30 Break and Poster Viewing

Previous Seismic Experiments Around Antarctica

10:30	-	10:45	Jean-Jacques Leveque	IPG Strasbourg	A New Permanent Seismic Observatory in Antarctica: The Concordia Station at Dome C
10:45	-	11:00	Mike Studinger	Lamont-Doherty Earth Observatory	Geological Framework of Lake Vostok, East Antarctica
11:00	-	11:15	Doug Wiens	Washington University	The Trans-Antarctic Mountains Seismic Experiment (TAMSEIS): A Prototype for Large-Scale Broadband Deployment in Antarctica
11:15	-	11:30	Rick Aster	New Mexico Institute of Mining and Technology	Interdisciplinary Year-Round and Real-Time Geophysical Data From Mount Erebus

Synergistic Methods

11:30	-	11:45	Kazuo Shibuya	National Institute of Polar Research, Japan	Current and Future Plans of the JARE Earth Science Programs and the Seismic Instrumentation Development for Antarctic Research
11:45	-	12:00	Anya Reading	Australian National University	East Antarctica: New Tectonic Models and New Targets
12:00	-	1:30	Lunch and Poster Viewing		

Tuesday PM (Doug Wiens, Don Blankenship)

1:30	-	1:45	Andrea Donellan	Jet Propulsion Laboratory	GPS Evidence for a Coherent Antarctic Plate and for Postglacial Rebound in Marie Byrd Land and the Northern Transantarctics
1:45	-	2:00	Don Blankenship	University of Texas at Austin	Investigating the Crustal Elements of the Antarctic Plate with Airborne Radar Sounding
2:00	-	2:15	Garry Karner	Lamont-Doherty Earth Observatory	Paradoxical Gravity Anomalies of the Ross Sea, Antarctica
2:15	-	2:30	John Brozena	Naval Research Lab	Long-Range Aerogeophysical Surveys in Antarctica
2:30	-	2:45	Phil Wannamaker	University of Utah	Thermal Regimes and Architecture of the Crust and Upper Mantle Inferred from Electrical Conductivity Investigations

Model Programs

2:45	-	3:00	Don Forsyth	Brown University	Proposed NSF Initiative in Oceanic Mantle Dynamics
3:00	-	3:15	Brian Kennett	Australian National University	Determining the Seismic Structure of a Continent – Lessons from Australia
3:15	-	3:30	Break and Poster Viewing		

Second Working Group Meeting

3:30	-	5:00	Continental Network/Leap-Frogging Array(s) (Brian Kennett, Arthur Lerner-Lam)		
			Interdisciplinary Process-Oriented Experiments (Andrew Nyblade, Ian Dalziel)		
			Technical Challenges (James Fowler, Bjorn Johns)		
			Icesheet Dynamics/Climate (Slawek Tulaczyk, Shijie Zhong)		

Second International Collaboration Working Group Meeting

5:00	-	6:00	Anya Reading, Andrea Morelli		
6:00	-	7:30	Break - Dinner		
7:30	-	...	Community Forum: Umbrella Initiative for Geosciences? (Terry Wilson)		

March 05 Wednesday AM (Sridhar Anandakrishnan, Mike Ritzwoller)

8:30	-	8:45	Opening Remarks		
8:45	-	9:00	Robin Bell	LDEO	International Polar Year

Logistics and Operations

9:00	-	9:15	Rhett Butler	IRIS	The Global Seismographic Network in Antarctica
9:15	-	9:30	Scott Borg	NSF/OPP	USAP Science Support Capabilities and Possibilities
9:30	-	9:45	Chuck Meertens	UNAVCO	UNAVCO Experiences from Large Instrumentation Initiatives, Operation of a Multi-Agency Technical Support Facility, and Multi-Disciplinary Support to the U.S. Antarctic Program

Reports from Workshop Chairs

9:45	-	10:05	Technical Challenges (James Fowler, Bjorn Johns)		
10:05	-	10:25	Backbone Network, Leap-Frogging Array (Brian Kennett, Arthur Lerner-Lam)		
10:25	-	10:40	Break		
10:40	-	11:00	Glaciology/Climate (Slawek Tulascyk, Shijie Zhong)		
11:00	-	11:20	Process-Oriented Experiments (Andrew Nyblade, Ian Dalziel)		
11:20	-	11:40	International Collaboration (Anya Reading, Andrea Morelli)		
11:40	-	12:00	Closing Remarks		
12:00			Meeting Adjourns		

Wednesday PM

1:30	-	3:00	Organizing Committee and Working Group Chairs Meet to Design the Science Plan		
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Organizing Committee: Anandakrishnan, Aster, Blankenship, Ritzwoller, Wiens

Working Group Chairs: Dalziel, Fowler, Johns, Kennett, Lerner-Lam, Morelli, Nyblade, Reading, Tulascyk, Zhong

